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C2* 11 a movement means for moving said transparent cylinder and said light source
12 and detector in a longitudinal axis relative to one another.

1 10. (Amended Twice) A spin cytometer, comprising:

2 a rotating means adapted to rotate a transparent cylinder about a longitudinal
3 axis of the transparent cylinder;

4 a light source adapted to illuminate at least a portion of the transparent cylinder
5 while the transparent cylinder is being rotated by the rotating means;

C2 6 a detector means for detecting a light signal generated by the light source and
7 reflected from the transparent cylinder while the transparent cylinder is being rotated
8 by the rotating means;

9 determining means for determining at least one cytometric characteristic of a
10 sample disposed in said transparent cylinder based on said detected light signal; and

11 a movement means for moving the transparent cylinder and the light source and
12 detector means in relative motion.

1 19. The spin cytometer of claim 18, wherein the organic photoreceptor

C3 2 material is activated by a wave length of approximately 300 nanometers to

3 approximately 800 nanometers.

C4 1 23. The spin cytometer of claim 22, wherein the light emitting diode is adapted

2 to emit a light having a wavelength of between approximately 300 nanometers

3 and 800 nanometers.